

# Preparation book

Computer

3rd.Pre



First Term

2024 - 2025

## Teacher's Biography

Name: .....

School: .....

The educational administration: .....

Qualification: .....

Teaching Subject: .....

Comprehensive School: .....

The school to which he is delegated: .....

Date of appointment: .....

The job is on the staff: .....

Teacher Code: .....

Mobile Number: .....

**Teacher**

**Supervisor**

**School Principal**

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## Daily class schedule

Session Day	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eightieth	Ninth
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

Session Day	First	Second	Third	Fourth	Fifth	Sixth	Seventh	Eightieth	Ninth
Saturday									
Sunday									
Monday									
Tuesday									
Wednesday									
Thursday									

Teacher

Supervisor

School Principal

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## The General Objectives of Computer

**At the end of the first term the student will be able to :**

- Providing students with the appropriate amount of scientific and basic knowledge and skills related to information technology.
- Develop basic scientific thinking skills with a focus on modern technological skills through their interaction with the computer.
- Training students to work in a team by practicing computer techniques.
- Developing self-education skills in order to access the correct information by themselves through the use of computers.
- Developing students' awareness of the importance of using computers in all areas of life.
- Students' appreciation of the role that computers play in problem solving.
- Students familiarize themselves with the computer and deal with its programs without intimidation.
- Developing the Egyptian personality capable of facing the challenges of the third millennium in the technology and information revolution.
- Acquiring the right ethics and behaviors in dealing with others through the means and tools of information and communication technology.

**Teacher**

**Supervisor**

**School Principal**

## The specified objectives of computer

At the end of the first term the student will be able to :

- ☐ **Knows** the problem Definition
- ☐ **Defines** the stages of problem solving stages
- ☐ **Writes** the steps to solve the algorithmic problem ,
- ☐ **draws** a flow chart that expresses the steps of the solution
- ☐ **Explain** what is meant by programming language .
- ☐ **Learn** what Visual Basic.NET is
- ☐ **Defines** the most important components of the IDE display
- ☐ **Lists what the** .NET framework provides
- ☐ **Recognize** the properties window Properties window
- ☐ **selects** the property Property appropriate.
- ☐ **Choose** the appropriate value for the property Property
- ☐ **differentiate** between properties Properties that distinguish each control tool
- ☐ **Handles** the code window Code Window
- ☐ **Defines** what is meant by an event handler Event handler
- ☐ **sets** Controls \_properties\_ Programmatically

Teacher

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School Principal

Date				
Session				
Class				



<b>Strategy</b>	<b>Dialogue and discussion – Brainstorming- Peer learning</b>
<b>Teaching aids</b>	<b>Electronic board – Data show</b>

Unit One (Problem Solving)  
Lesson (1) Problem Solving

**Lesson objectives:** By the end of the lesson, the student should be able to:

- **Known** problem Definition
- **Specifies** stages of problem solving
- **Find** solutions to some life problems

## Warm up:

## What are your steps to solve a problem?

## Lesson Presentation

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**Evaluation :** .....



Date				
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Class				



Unit One (Problem Solving)  
Lesson (2) Flow Chart

Strategy

Dialogue and discussion –  
Brainstorming- cooperative  
learning

Teaching aids

Electronic board – Data show

**Lesson objectives:** By the end of the lesson, the student should be able to:

- **Know** Flow chart.
- **List** flow chart instructions.
- **Draw** flow chart incorrectly.

**Warm up:**

**What's a Flow Chart?**

**Lesson Presentation**

**Evaluation :**

Date				
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<b>Strategy</b>	Dialogue and discussion – Brainstorming- cooperative learning – practical learning
<b>Teaching aids</b>	Electronic board – Data show

## Unit One (Problem Solving)

### Lesson (3) Branching

- Lesson objectives:** By the end of the lesson, the student should be able to:
- **Known** The concept of branching in flowcharts.
  - **Mention** Solution steps for a program
  - **Draw** flow charts correctly

**Warm up:** What do we mean by branchin?

## Lesson Presentation

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**Evaluation :** .....



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<b>Teaching aids</b>	Electronic board – Data show

## Unit One (Problem Solving)

### Lesson (4) Following Branching

**Lesson objectives:** By the end of the lesson, the student should be able to:

- **Known** The concept of branching in flowcharts.
- **Mention** Solution steps for a program
- **Draw** flow charts correctly

**Warm up:** How can branching be used to print the result of dividing two numbers?

## Lesson Presentation

[illegible]

**Evaluation :** .....

Date				
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<b>Strategy</b>	Dialogue and discussion – Brainstorming- practical learning
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## Unit One (Problem Solving)

### Lesson (5) Looping

**Lesson objectives:** By the end of the lesson, the student should be able to:

- **Known** The concept of iterative loops in flowcharts.
- **Specify** Solution steps for a program
- **Draw** Flowcharts using iterative loops

## Warm up: How can loops be used?

## Lesson Presentation

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**Evaluation :** .....

Date				
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<b>Strategy</b>	<b>Dialogue and discussion – Brainstorming- practical learning</b>
<b>Teaching aids</b>	<b>Electronic board – Data show</b>

## Unit One (Problem Solving)

### Lesson (6) Following Looping

**Lesson objectives:** By the end of the lesson, the student should be able to:

- **Known** The concept of iterative loops in flowcharts.
- **Specify** Solution steps for a program
- **Draw** Flowcharts using iterative loops

**Warm up:** How can loops be used To print the sum of the integers from 1 to 3?

## Lesson Presentation

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**Evaluation :** .....

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Strategy

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## Unit Two (Introduction to Visual Basic.net) Lesson (7) Following Looping

- Lesson objectives:** By the end of the lesson, the student should be able to:
- **Explain** what is meant by programming language
  - **Identify** the essence of Visual Basic.net
  - **Identify** the main components of IDE screen

**Warm up:** How can the solution steps be converted into programming commands that can be executed?

### Lesson Presentation

**Evaluation :**

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<b>Strategy</b>	Dialogue and discussion – cooperative learning
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**Unit Two (Introduction to Visual Basic.net)**  
**Lesson (8) Solve the questions of the second chapter**

**Lesson objectives:** By the end of the lesson the student should be able to:

- **Explain** what is meant by programming language.
- **Acquire** Some concepts for the second chapter
- **Mention** The most important components of a screenIDE

**Warm up:** What are the most important topics of the second chapter?

## Lesson Presentation

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**Evaluation :** .....

Date				
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<b>Strategy</b>	<b>Dialogue and discussion – brainstorming - cooperative learning</b>
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## Unit Three (Controls)

## Lesson (9) Properties of control tools...FORM

**Lesson objectives:** By the end of the lesson the student should be able to:

- **Recognize** the Properties Window.
- **Choose** the appropriate Property.
- **Choose** the proper value for the Property.

## Warm up:

## What are the most popular control tools in Visual Basic ?

## Lesson Presentation

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## Unit Three (Controls)

## Lesson (10) Properties of control tools...button, label, text box

**Lesson objectives:** By the end of the lesson the student should be able to:

- **Differentiate** between different controls
- **adjust** The appropriate Property for each tool
- **Choose** the appropriate value for the property

## Warm up:

**What** is the difference between the command button and the text box ?

## Lesson Presentation

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### Unit Three (Controls)

## Lesson (11) Properties of control tools...list box, combo box

**Lesson objectives:** By the end of the lesson the student should be able to:

- **Distinguish** between the list box and the combobox
- **Adjust** The Appropriate Property for each tool
- **Mention** Individual characteristics of each tool

**Warm up:** What is the difference between the list box and the combo box?

### Lesson Presentation

**Evaluation :**

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## Unit Three (Controls)

## Lesson (12) Properties of control tools...group box, check box, Radio button

**Lesson objectives:** By the end of the lesson the student should be able to:

- **Distinguish** between the group box and the radio button.
- **Adjust** The AppropriateProperty for each tool
- **Realize** the importance of programming languages

**Warm up:** What is the difference between the list box and the combo box?

## Lesson Presentation

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**Evaluation :** .....

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## Unit Four (Code Window)

### Lesson (13) Code Window

**Lesson objectives:** By the end of the lesson the student should be able to:

- **Work** with the Code window.
- **Define** the Event Handler.
- **Adjust** Controls' Properties programmatically.

**Warm up:** How can you write instructions and codes of the program?

## Lesson Presentation

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**Evaluation :** .....

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<b>Strategy</b>	Dialogue and discussion – cooperative learning – practical learning
<b>Teaching aids</b>	Electronic board – Data show

## Unit Four (Code Window)

### Lesson (14) Programmatically set properties

- Lesson objectives:** By the end of the lesson the student should be able to:
- **Mention** The general form for setting the properties of tools programmatically.
  - **Define** what is meant by the code window
  - **Adjust** the properties of the control Programmatically
- Warm up:** **How** can you set the properties of the tools Programmatically?

## Lesson Presentation

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**Evaluation :** .....



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Class				



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## Lesson (15) General Revision

**Lesson objectives:** By the end of the lesson the student should be able to:

- **Explain** what is meant by programming language.
- **Acquire** Some concepts of what has been studied
- **Mention** The most important controls

**Warm up:** **What** are the most important terms and concepts that you learned?

## Lesson Presentation

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**Evaluation :** .....